Contents of Volume 36, 1997

Number One (G321-0126)

Application development as an engineering discipline: Revolution or evolution? 4
N. Bieberstein (G321-5631)

Family traits in business objects and their applications 12
R. Prins, A. Blokdijk, and N. E. van Oosterom (G321-5632)

Bridging traditional and object technologies: Creating transitional applications 32
A. H. Lindsey and P. R. Hoffman (G321-5633)

The COBOL jigsaw puzzle: Fitting object-oriented and legacy applications together 49
E. S. Flint (G321-5634)

Object persistence in object-oriented applications 66
V. Srinivasan and D. T. Chang (G321-5635)

Debugging DB2/CS client/server applications 88
M. Meier, H. Pan, and G. Y. Fuh (G321-5636)

Workflow-based applications 102
F. Leymann and D. Roller (G321-5637)

The effective use of automated application development tools 124
P. Guinan, J. G. Cooprider, and S. Sawyer (G321-5638)

The effects of the business model on object-oriented software development productivity 140
T. E. Potok and M. A. Vouk (G321-5639)

Technical forum 162
IBM's electronic commerce solution: CommercePOINT
D. Connolly

Number Two (G321-0127)

S/390 cluster technology: Parallel Sysplex 172
J. M. Nick, B. B. Moore, J.-Y. Chung, and N. S. Bowen (G321-5640)

A locking facility for parallel systems 202
N. S. Bowen, D. A. Elko, J. F. Isenberg, and G. W. Wang (G321-5641)

Cluster architectures and S/390 Parallel Sysplex scalability 221
G. M. King, D. M. Dias, and P. S. Yu (G321-5642)

Adaptive algorithms for managing a distributed data processing workload 242
J. Aman, C. K. Eilert, D. Emmes, P. Yocom, and D. Dillenberger (G321-5643)

Availability in parallel systems: Automatic process restart 284
N. S. Bowen, J. Antognini, R. D. Regan, and N. C. Matsakis (G321-5644)

The importance of systems management for a Parallel Sysplex 301
P. Johnson (G321-5645)

DB2's use of the coupling facility for data sharing 327
J. W. Josten, C. Mohan, I. Narang, and J. Z. Teng (G321-5646)

The evolution of CICS/ESA in the sysplex environment 352
T. Banks, K. E. Davies, and C. Moxey (G321-5647)

VSAM record-level data sharing 361
J. P. Strickland (G321-5648)

Number Three (G321-0128)

Multimedia file serving with the OS/390 LAN Server 374
M. G. Kienzle, R. R. Berbec, G. P. Bozman, C. K. Eilert, M. Eshel, and R. Mansell (G321-5649)

0018-8670/97/$5.00 © 1997 IBM

Contents of Volume 36, 1997

Number One (G321-0126)

Application development as an engineering discipline: Revolution or evolution? 4
N. Bieberstein (G321-5631)

Family traits in business objects and their applications 12
R. Prins, A. Blokdijk, and N. E. van Oosterom (G321-5632)

Bridging traditional and object technologies: Creating transitional applications 32
A. H. Lindsey and P. R. Hoffman (G321-5633)

The COBOL jigsaw puzzle: Fitting object-oriented and legacy applications together 49
E. S. Flint (G321-5634)

Object persistence in object-oriented applications 66
V. Srinivasan and D. T. Chang (G321-5635)

Debugging DB2/CS client/server applications 88
M. Meier, H. Pan, and G. Y. Fuh (G321-5636)

Workflow-based applications 102
F. Leymann and D. Roller (G321-5637)

The effective use of automated application development tools 124
P. Guinan, J. G. Cooprider, and S. Sawyer (G321-5638)

The effects of the business model on object-oriented software development productivity 140
T. E. Potok and M. A. Vouk (G321-5639)

Technical forum 162
IBM's electronic commerce solution: CommercePOINT
D. Connolly

Number Two (G321-0127)

S/390 cluster technology: Parallel Sysplex 172
J. M. Nick, B. B. Moore, J.-Y. Chung, and N. S. Bowen (G321-5640)

A locking facility for parallel systems 202
N. S. Bowen, D. A. Elko, J. F. Isenberg, and G. W. Wang (G321-5641)

Cluster architectures and S/390 Parallel Sysplex scalability 221
G. M. King, D. M. Dias, and P. S. Yu (G321-5642)

Adaptive algorithms for managing a distributed data processing workload 242
J. Aman, C. K. Eilert, D. Emmes, P. Yocom, and D. Dillenberger (G321-5643)

Availability in parallel systems: Automatic process restart 284
N. S. Bowen, J. Antognini, R. D. Regan, and N. C. Matsakis (G321-5644)

The importance of systems management for a Parallel Sysplex 301
P. Johnson (G321-5645)

DB2's use of the coupling facility for data sharing 327
J. W. Josten, C. Mohan, I. Narang, and J. Z. Teng (G321-5646)

The evolution of CICS/ESA in the sysplex environment 352
T. Banks, K. E. Davies, and C. Moxey (G321-5647)

VSAM record-level data sharing 361
J. P. Strickland (G321-5648)

Number Three (G321-0128)

Multimedia file serving with the OS/390 LAN Server 374
M. G. Kienzle, R. R. Berbec, G. P. Bozman, C. K. Eilert, M. Eshel, and R. Mansell (G321-5649)

0018-8670/97/$5.00 © 1997 IBM

Multimedia resource management in OS/390 LAN Server 393
A. Dan, S. Dulin, S. Marcotte, and D. Sitaram (G321-5650)

A method for on-line reorganization of a database 411
G. H. Sockut, T. A. Beavin, and C.-C. Chang (G321-5651)

Technical forum 437
IBM Business Frameworks: San Francisco project technical overview
V. D. Arnold, R. J. Bosch, E. F. Dumstorff, P. J. Helfrich, T. C. Hung, V. M. Johnson, R. F. Persik, and P. D. Whidden

Automatist storyteller systems and the shifting sands of story 446
G. Davenport and M. Murtaugh (G321-5652)

The last book 457
J. Jacobson, B. Comiskey, C. Turner, J. Albert, and P. Tsao (G321-5653)

Number Four (G321-0129)

Overview: The Centre for Advanced Studies 474
S. G. Perelgut, G. M. Silberman, K. A. Lyons, and K. L. Bennet (G321-5654)

Enabling technology for distributed multimedia applications 489
J. W. Wong, K. A. Lyons, D. Evans, R. J. Velthuys, G. v. Bochmann, E. Dubois, N. D. Georganas, G. Neufeld, M. T. Özsu, J. Brinskelle, A. Hafid, N. Hutchinson, P. Iglinski, B. Kerhervé, L. Lamont, D. Makaroff, and D. Szafron (G321-5655)

Services supporting management of distributed applications and systems 508
M. A. Bauer, R. B. Bunt, A. El Rayess, P. J. Finnigan, T. Kunz, H. L. Lutfiyya, A. D. Marshall, P. Martin, G. M. Oster, W. Powley, J. Rolia, D. Taylor, and M. Woodside (G321-5656)

Predicting the performance of distributed virtual shared-memory applications 527
E. W. Parsons, M. Brorsson, and K. C. Sevcik (G321-5657)

Communication and organization in software development: An empirical study 550
C. B. Seaman and V. R. Basili (G321-5658)

The software bookshelf 564
P. J. Finnigan, R. C. Holt, I. Kalas, S. Kerr, K. Kontogiannis, H. A. Müller, J. Mylopoulos, S. G. Perelgut, M. Stanley, and K. Wong (G321-5659)

Note—Numbers in parentheses after issue numbers and after authors' names denote the Reprint Order Numbers.